

**UNITED STATES DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE**

**PASTURE AND HAYLAND PLANTING (ACRE)**

**CODE 512**

\_\_\_\_\_  
(PRODUCER) (ACRES) (FIELD NO., TRACT, OR CTU)

**SCOPE.** This specification provides guidelines for establishment and maintenance of pasture or hayland plantings.

**PURPOSE OF PLANTING.**

- |  |   |                                   |
|--|---|-----------------------------------|
| <input type="checkbox"/> hayland         | <input type="checkbox"/> pastureland      | <input type="checkbox"/> wildlife |
| <input type="checkbox"/> erosion control | <input type="checkbox"/> emergency forage | <input type="checkbox"/> CRP      |

1. Soil map unit(s) \_\_\_\_\_; Texture \_\_\_\_\_

2. Planned planting dates \_\_\_\_\_

3. Seedbed preparation. ☐ cultivated seedbed ☐ seed into stubble  
☐ seed into chemical fallow ☐ other seedbed prep.

Description \_\_\_\_\_

Firm seedbed so that the tracks of an average size person are not more than 3/8-inch deep.

4. Fertilization. Nitrogen fertilizer is not normally recommended, however, if soil analysis shows a severe deficit a light rate may be applied prior to seeding.

Soil test analysis results: \_\_\_\_\_ N; \_\_\_\_\_ P; \_\_\_\_\_ K; \_\_\_\_\_ S

Recommendations: \_\_\_\_\_ N; \_\_\_\_\_ P; \_\_\_\_\_ K; \_\_\_\_\_ S

Other nutrients or soil amendments \_\_\_\_\_

5. Seeding. Small grass, forbs, and legume seed will be planted no deeper than 1/2 inch. Large grass seeds shall be planted no deeper than 1 inch.

Planting implement \_\_\_\_\_

6. Management of this planting during establishment will be in accordance with the following provisions:

Weed control. \_\_\_\_\_

Grazing. \_\_\_\_\_

Haying. \_\_\_\_\_

Other. \_\_\_\_\_

## PASTURE AND HAYLAND PLANTING (ACRE)

## SPECIFICATION AND CERTIFICATION WORKSHEET

## PLANNED SEEDING

PLANT SPECIES (1)	LBS. PLS / ACRE <sup>1/</sup> (FOR PURE STAND) (2)	% OF MIXTURE (3)	PLS / AC. NEEDED IN MIXTURE (LBS.) (COL. 2 X COL. 3) (4)	ACRE(S) TO BE SEEDED (5)	TOTAL PLS NEEDED (LBS.) (COL. 4 X COL. 5) (6)
NATURAL RESOURCES CONSERVATION SERVICE		DATE	PRODUCER		DATE

## CERTIFICATION

PLANT SPECIES (a)	ACRE(S) PLANTED) (b)	BULK LBS. PLANTED (c)	FROM SEED TAG		TOTAL PLS PLANTED (LBS.) (COL. c X COL. d X COL. e) (f)	% PLANTED VS PLANNED (LBS.) (COL. f ÷ COL. 6) (g)
			% PURE (d)	% GERM. (e)		
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1/ PLS (Pure Live Seed) = Germination x Purity.

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## SPECIES CHARACTERISTICS TABLE

### Explanation and Symbols for Rating Factors

#### COLUMN 2      GROWTH CHARACTERISTICS

##### LEGUMES

- E -- Erect
- P -- Prostrate

##### GRASSES

- T--- Tall grass
- M-- Mid grass
- S -- Short grass
- B -- Bunch grass
- R -- Rhizomatous
- C -- Cool season
- W - Warm season

#### COLUMN 3      OPTIMUM SEASON FOR USE

- Sp- spring
- Su- summer
- F--- fall
- W - winter

#### COLUMN 4      EASE OF ESTABLISHMENT

- 1. Easy to establish
- 2. Average
- 3. Difficult

#### COLUMN 5      SHADE TOLERANCE

- 1. High
- 2. Medium
- 3. Low

#### COLUMN 6      WINTER HARDINESS

- 1. Hardy
- 2. Semi-hardy
- 3. Hazardous in some areas

#### COLUMN 7      SUMMER REGROWTH ABILITY

- 1. High
- 2. Medium
- 3. Low (little or none)

#### COLUMN 8      FALL REGROWTH ABILITY

- 1. High
- 2. Medium
- 3. Low (little or none)

#### COLUMN 9      TOLERANCE TO WATER TABLE

- 1. Species does best with water table near the surface. It tolerates water over the surface for several weeks at a time.
- 2. Species does well on sites with water table rarely above the during the growing season, but sub-irrigated most of the growing season. Surface may be nearly saturated most of the year.
- 3. Species does best on sites with water table low enough to allow at least the upper six inches of the soil to remain unsaturated most of the year.
- 4. Species for which the water table should be nearer than 35 inches for optimum production.

## SPECIES CHARACTERISTICS TABLE CONTINUED

## Explanation and Symbols for Rating Factors

COLUMN 10-12      TOLERANCE TO EARLY SPRING FLOODING

- Exc. (excellent) - more than 49 days
- Good - 14 to 49 days
- Poor - less than 14 days

COLUMN 13      FERTILITY REQUIREMENTS

- 1. High
- 2. Low

COLUMN 14      RELATIVE LIFE OF STAND

- 1. Persists even under low level management
- 2. Persists indefinitely with reasonably good management
- 3. Requires good management to remain productive more than eight years
- 4. Short - perhaps five years

Two to three years

COLUMN 15      DROUGHT TOLERANCE

- 1. High
- 2. Medium
- 3. Low

COLUMN 16      pH TOLERANCE

- 1. Tolerant to strong acid
- 2. Tolerant to weak acid
- 3. Tolerant to weak base
- 4. Tolerant to strong base

COLUMN 18      RESPONSE TO IRRIGATION

- 1. Makes good use of full season water supply
- 2. Adapted to short season water supply
- 3. Poorly adapted to irrigated forage production
- BLANK - insufficient experience under 1 to evaluate

COLUMN 19-23      SOIL TEXTURE ADAPTATION

Assumptions for these categories: a representative soil at least 20 inches deep, good forage management, good drainage, and no salt problem.

- 1. Well adapted
- 2. Short term
- 3. Poorly adapted

COLUMN 24      TENDENCY TO PRODUCE BLOAT WHEN GRAZING

- 1. Highest incidence
- 2. Moderate incidence
- 3. None occurs

COLUMN 25      WINTER PROTEIN CONTENT

Only 13 species rated.

- 1. Very high - 4.0 to 4.5 percent
- 2. High - 3.0 to 3.9 percent
- 3. Medium - 2.5 to 2.9 percent
- 4. Low - 1.8 to 2.4 percent

COLUMN 26-27      PALATABILITY

- Cattle - green growth:
  - 1. High
  - 2. Medium
  - 3. Low
- Plants - dormant:
  - 1. High
  - 2. Medium
  - 3. Low

COLUMN 28-30      PALATABILITY

- Elk, deer, & antelope,
  - 1. High
  - 2. Medium
  - 3. Low
- Seasons,
  - Sp - spring
  - Su - summer
  - F - fall
  - W - winter
  - All - all year

## SPECIES CHARACTERISTICS TABLE CONTINUED

### Explanation and Symbols for Rating Factors

**COLUMN 31**      **COMPATABILITY FOR GRAZING WITH CATTLE**  
 Species having like letters have similar grazing performance throughout the year.

**COLUMN 32**      **TOLERANCE TO CLOSE GRAZING**  
 1. High - persists under close grazing  
 2. Medium  
 3. Low - sensitive to close grazing

**COLUMN 33**      **PRODUCTION**  
 Assumes optimum growing conditions for each species.  
 1. High  
 2. Medium  
 3. Low

**COLUMN 34-36**      **SOIL PROTECTION AND COVER**  
 For: Irrigation canals and drainage ditches  
 1. Well adapted, moist zone  
 2. Well adapted, drier zone  
 3. Fast development - short lived  
 4. poorly adapted  
  
 For: Waterways - protection against flowing water  
 1. Good protection, vigorous, long lived, sod former.  
 2. Good protection, short lived, sod former  
 3. Species marked by asterisk used in areas receiving more than 18 inches precipitation.  
  
 For: Shoreline protection  
 1. Indicates good growth at and just above water line.